

WHAT IS CLAIMED IS:

1 1. A device for identifying types of data
2 transmitted on multiple channels of a digital broadcast
3 signal, displaying the identified types of data transmitted
4 on each channel, and enabling a user to access the data
5 transmitted on a particular channel, the device comprising:
6 a scanning receiver adapted to tune to the digital
7 broadcast signal on selected channels, the digital broadcast
8 signal including at least one digital television programming
9 packet and at least one data packet;
10 a demodulator coupled to the receiver and adapted
11 to demodulate the digital broadcast signal;
12 a detector coupled to the demodulator and adapted
13 to detect the at least one data packet;
14 a memory coupled to the detector, the memory being
15 adapted to store data guide software code for identifying
16 the type of data contained in the at least one data packet
17 and the channel on which the identified type of data is
18 available, the data guide software further being adapted to
19 enable the data on any channel selected by an operator to be
20 accessed;

21 a processor coupled to the memory and adapted to
22 execute the data guide software code; and,

23 an operator interface module coupled to the
24 processor, the operator interface module being adapted to
25 display the identified types of data and the channels on
26 which the identified types of data are available, the
27 operator interface module further being adapted to enable
28 any displayed channel to be selected.

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1 6. The device of claim 1 wherein the processor
2 comprises a processing unit of a television, and the
3 operator interface module comprises a display screen of the
4 television.

1 7. The device of claim 1 wherein the at least
2 one data packet includes at least one link to a website, the
3 operator interface module enables the at least one website
4 to be selected, and wherein the processor enables the at
5 least one website to be accessed.

1 8. The device of claim 1 wherein the data guide
2 software code generates a data guide in menu format for
3 display on the operator interface module.

1 9. The device of claim 8 wherein the operator
2 interface module enables the operator to scroll through the
3 menu before selecting a particular channel.

1 10. A method of providing a data guide
2 summarizing types of data transmitted in a digital broadcast
3 signal and the channels corresponding to the types of data
4 comprising the steps of:

5 receiving the digital broadcast signal containing
6 digital programming packets and data packets;

7 demodulating the digital broadcast signal;

8 detecting the data packets;

9 storing the data guide based on information
10 contained in the data packets; and,
11 displaying the data guide.

12 11. The method of claim 10 wherein the digital
13 broadcast signal is transmitted in multiple channels, and
14 wherein the receiving step is performed by scanning through
15 the multiple channels.

1 12. The method of claim 10 further including the
2 step of selecting one of the identified channels and gaining
3 access to data transmitted on the selected channel.

1 13. The method of 10 performed by a central
2 processing unit of a personal computer, wherein the

3 displaying step is performed using a video monitor connected
4 to the personal computer.

1 14. The method of claim 10 performed by a
2 processor of a television, wherein the displaying step is
3 performed using a video screen of the television.

1 *Sub B4* 15. The method of claim 10 performed by a
processor of a personal digital assistant.

16. The method of claim 10 performed by a
processor of a telephone.

17. The method of claim 16 wherein the telephone
comprises a cellular telephone.

1 18. A data casting system comprising:
2 a receiver adapted to receive a digital broadcast
3 signal containing at least one digital television
4 programming packet and at least one data packet;
5 a detector coupled to the receiver and adapted to
6 detect the at least one data packet, the detector further
7 adapted to detect types of data transmitted within the at
8 least one data packet and channels on which the detected
9 types of data are available; and,
10 an operator interface module coupled to the
11 detector and adapted to display the detected types of data
12 and the channels on which the detected types of data are
13 available.

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19 19. The data casting system of claim 18 further
20 including a processor coupled to the detector, the processor
21 being adapted to execute data guide software, the data guide
22 software generating a menu based on the types of data and
23 channels detected by the detector, the menu being displayed
24 on the operator interface module.

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3 channels to be selected, and the data guide software and
4 processor connect the operator interface module to the
5 selected channel.

1 21. The data casting guide of claim 20 wherein
2 the at least one channel includes at least one link to a
3 website.

4 22. A computer readable storage medium of a
5 digital program receiver having a data guide stored thereon,
6 wherein the data guide contains a list of the types of data
7 receivable by the digital program receiver and the
8 corresponding RF channels in which the data is present.

9 23. The computer readable storage medium of claim
10 22 wherein the data guide is a menu.

11 24. The computer readable storage medium of claim
12 23 wherein the menu contains selectable items.